

CONNECTION

Information *for* Teachers

Vol. 6, No. 3, March 1998
Telephone 310-0000 Toll Free

available for viewing and downloading
<<http://ednet.edc.gov.ab.ca>>

Alberta
EDUCATION

• Connection is a publication of the Student Programs and Evaluation Division •

AT A GLANCE

Resources listed are those authorized between
November 1, 1997 and February 15, 1998.

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OUR NEW LOOK

In this issue you will notice a change in the way
Connection is providing information.

First, we have introduced a new masthead.

Second, all of the information regarding curriculum
in the English language is listed alphabetically by
subject area, from Kindergarten through to
Grade 12 in each area.

Third, all of the information regarding curriculum in
the French language is listed, in French, in its own
section, alphabetically by subject area, from
Kindergarten through to Grade 12 in each area.
The only exception is French as a Second
Language, which is in the English section, and the
information is in English.

This format change will be used for this issue and
the May issue as well. In May, we will be seeking
your opinion about the changes. If you would like
to provide feedback before then, forward your
comments by mail to the address shown in the
publication box on the last page of this issue; or,
by sending an email to <connectioneditor@edc.gov.ab.ca>.

RESOURCES NOTE

The authorized resources listed herein, basic and
teaching, are all approved and available for purchase
from the LRDC, unless otherwise indicated by
separate statement.

LRDC Ordering

Orders can be placed through:

Learning Resources Distributing Centre
12360 - 142 Street
Edmonton, Alberta
T5L 4X9

Telephone: 403-427-5775

Fax: 403-422-9750

Web Site: <<http://ednet.edc.gov.ab.ca/lrdc>>

ECS–GRADE 12 GENERAL

CURRICULUM HANDBOOKS FOR PARENTS, KINDERGARTEN TO GRADE 12

The 1998–1999 editions of the *Curriculum Handbooks for Parents, Kindergarten to Grade 9* (Catholic and General school versions) are scheduled to be available by May 1998 for viewing and downloading from the Alberta Education web site. Print copies are scheduled to be available for purchase at the same time from the Queen's Printer Bookstore at 403–427–4952, or from the LRDC.

Changes in the Kindergarten to Grade 9 editions include a new Catholic school version of the Kindergarten handbook and revisions to the religious education section of the Catholic school versions for Grade 4 and Grade 9.

Two new handbooks for senior high school—a Catholic school version and a General school version—are scheduled to be available at the same time as the Kindergarten to Grade 9 handbooks.

For more information regarding the Kindergarten to Grade 9 parent handbooks, contact Joan Engel at 403–427–2984, fax 403–422–3745, email <jengel@edc.gov.ab.ca>. For more information regarding the senior high school parent handbooks, contact Terry Kernaghan at 403–422–2814, fax 403–422–0576, email <tkernaghan@edc.gov.ab.ca>.

DISTANCE LEARNING

For information on Learning Technologies Branch products and initiatives, visit the LTB web site at <<http://ednet.edc.gov.ab.ca/ltb>>. For detailed information on the following products, go directly to the respective address:

- Production Schedules
<<http://ednet.edc.gov.ab.ca/ltb/400/schedule.html>>
- Computer Assisted Instruction
<<http://ednet.edc.gov.ab.ca/ltb/500/cai.html>>
- Question Banks
<<http://ednet.edc.gov.ab.ca/ltb/500/qbank.html>>.

SPECIAL EDUCATION

Teaching Students with Fetal Alcohol Syndrome and Possible Prenatal Alcohol-related Effects has now been published, and copies are available for purchase from the LRDC.

A Handbook for Aboriginal Parents of Children with Special Needs and an accompanying brochure are scheduled to be published in the late spring or early fall of 1998. The resources outline parent rights and responsibilities, Alberta Education requirements for special education, and strategies to facilitate effective communication between the home and the school. The resources will be available for purchase from the LRDC.

The Special Education Branch, in collaboration with the Learning Disabilities Association of Alberta, is developing a new resource entitled *The Parent Advantage: Helping Students Become Successful Learners at Home and School*. The resource contains strategies for teaching organizational, reading, writing, spelling, mathematics, test-taking and project skills at the Grade 1 to Grade 9 levels. These strategies parallel those included in *Teaching Students with Learning Disabilities, Book 6* in the *Programming for Students with Special Needs* series. The resource has been reviewed by parents and teachers and is scheduled for publication in March 1998. A senior high school handbook is also under development.

Teaching Students Who Are Gifted and Talented, Book 7 in the *Programming for Students with Special Needs* series was field tested across the province in March 1998. The projected publication date is late 1998.

Western Consortium for Special Education

Alberta Education is collaborating with the Western provinces in the development of the following resources having to do with social/emotional issues.

- *Suicide Prevention and Intervention* — Saskatchewan is the lead province for this resource. Alberta Education has reviewed the prospectus and compiled a provincial response. The first draft became available for review in Alberta in March 1998. Those interested in reviewing this resource can fax their name, address and telephone number to Greg Bishop at 403–422–2039.

- *Managing Students with Sexual Behaviour Problems in School Settings* — British Columbia is the lead province for this resource. Alberta Education has reviewed the prospectus and compiled a provincial response. The first draft is scheduled to be available for review in Alberta in April 1998. Those interested in reviewing this resource can fax their name, address and telephone number to Greg Bishop at 403-422-2039.
- *Teaching Students with Emotional Disorders* — Alberta is the lead province for this resource. The Special Education Branch consulted with the field to determine topics for the resource. The topics to be covered include anxiety disorder, depression, eating disorders, conduct disorder, oppositional defiant disorder and schizophrenia. The prospectus is currently under development in collaboration with Edmonton Public Schools.

SURVEY—PROGRAMS OF STUDY IMPLEMENTATION SCHEDULE

In October 1997, the Director of the Curriculum Standards Branch sent a survey to superintendents of schools to get their comments on the proposed schedule for implementation of new programs of study. Of the 37 school systems that responded, the majority generally supported the proposed implementation schedule. Most respondents felt that revisions and updates to programs of study are necessary and that the proposed timelines are reasonable.

School systems that responded to the survey overwhelmingly supported having an optional year of implementation to give them a chance to plan for a new program. Respondents also said that there is a need for more financial and human assistance to adequately introduce changes. Two recurring issues were insufficient funds for purchasing resources and providing inservice, and not enough time for teachers and other staff to prepare for upcoming changes.

Respondents provided a variety of suggestions on ways to help achieve a balance between the pace of curriculum change and the strains that new programs place on people in the field. These included having more provincial support for the purchase of resources and for inservices. Respondents also commented on how to improve communication about curriculum

change. Several indicated that Alberta Education should continue to publish newsletters and use the Internet to provide information about program changes.

Alberta Education would like to thank the school systems that responded to the survey. The comments and suggestions received will help the province to plan for future changes in programs of study.

ECS—GRADE 12 CURRICULUM AND RESOURCES

CAREER AND LIFE MANAGEMENT 20

Consultation

The Minister of Education is currently reviewing the value of the Career and Life Management (CALM) 20 course as a graduation requirement. Alberta Education is beginning a consultation process on the status of the course and how it should fit into future plans for education in Alberta. The perspectives of CALM teachers, counsellors, students, parents, school administrators, leadership staff and members of the professional health care community are an essential part of the review process.

Meetings to gather input were held across the province during February and March 1998.

For more information, or if you still wish to provide input into the review process, contact Barb Milne at 403-422-3282, fax 403-422-3745, email <bmilne@edc.gov.ab.ca>.

CAREER AND TECHNOLOGY STUDIES

For current information on upcoming events and what is new in CTS, visit the CTS web site. The web site provides access to a variety of CTS information, including the most recent issue of the *CTS Communication Network Update*.

CTS Manual for Administrators, Counsellors and Teachers

The 1997 Interim *Career & Technology Studies Manual for Administrators, Counsellors and Teachers* (ACT Manual) is currently being revised. The final edition is scheduled to become available in June 1998, and consolidates the information provided in all previous editions. It will be available in print and electronic formats.

Curriculum Maintenance

Processes are in place for evergreening CTS. Annual strategies for maintaining a current and relevant curriculum and resource base include:

- gathering input from key players regarding strengths/gaps in curriculum and resources
- establishing priorities for change based on future gazing and the feedback received
- revising curriculum and assessment standards, drafting new courses and identifying new resources, as required
- validating new/revised curriculum and resources for subsequent authorization and implementation.

The CTS unit continues to welcome ideas for maintaining curriculum and resources. Suggestions should be forwarded in writing to the CTS unit, through mail, fax or email.

Basic Resources

Career Transitions

Levels 1, 2, 3

- *Success in the Workplace*. Second edition
 - student manual

Construction Technologies

Levels 1, 2, 3

- *Technology: Shaping Our World*
 - student text

Design Studies

Levels 1, 2, 3

- *Mechanical Drawing: CAD Communications*. Twelfth edition
 - student text

Tourism Studies

Levels 1, 2, 3

- *Tourism and Travel: Focus Canada: A Guide to Canada's Tourism Industry and Its Careers*. Fifth edition

Teaching Resources

Career Transitions

Levels 1, 2, 3

- *Job Safety Skills for Young Workers* [available from the Job Safety Skills Society]
 - Part 1: *Personal Safety Management*
 - Part 2: *Workplace Safety Practices*
 - Part 3: *Safety Management Systems*
- *Success in the Workplace*. Second edition
 - teacher's edition

Community Health

Levels 1, 2, 3

- *Families Today: Student Workbook TAE*

Design Studies

Levels 1, 2, 3

- *Mechanical Drawing: CAD Communications*. Twelfth edition
 - teacher's resource binder
 - Windows version work disk

For more information regarding CTS in the English language, contact Jan Mills at 403-422-3275, fax 403-422-0576, email <jmills@edc.gov.ab.ca>, Edmonton; or Gary Bertrand at 403-297-5022, fax 403-297-3842, email <gbertrand@edc.gov.ab.ca>, Calgary.

For more information regarding CTS in the French language, contact Paul Pelchat at 403-427-2940, fax 403-422-1947, email <ppelchat@edc.gov.ab.ca>.

ENGLISH LANGUAGE ARTS

Kindergarten to Grade 9

Program of Studies

The draft 1998 *Alberta Program of Studies for English Language Arts Kindergarten to Grade 9*, based on *The Western Canadian Protocol Common Curriculum Framework for English Language Arts, Kindergarten to Grade 12 (Grades 10–12 Draft)*, is under development. This program will replace the Elementary Language Learning Program of Studies, 1991 and the Junior High Language Arts Program of Studies, 1987.

Optional implementation of the new program is scheduled for September 1998. Provincial implementation is to occur in September 1999.

Lead Teacher Implementation Project

In order to assist teachers in implementing the new 1998 *Alberta Program of Studies for English Language Arts Kindergarten to Grade 9*, Alberta Education identified and provided inservice for an English Language Arts Lead Teacher Implementation Team based on a "train the trainer" model. Thirty-two lead teachers from across the province were selected to provide inservices for their colleagues, in which they will describe for them, the new Kindergarten to Grade 9 English language arts program.

At the nine-day orientation, planning and development sessions, held in February and March 1998, the lead teachers familiarized themselves with the new Kindergarten to Grade 9 program of studies. They participated in the development of inservice materials and are now prepared to work with other teachers in the implementation of the new program of studies.

Western Canadian Protocol (WCP)

Learning and Teaching Resources

The WCP partners have, for Phase 1, identified close to 200 teacher professional resources. The Alberta resource review team met in January 1998 to select the best of these resources to recommend for Alberta authorization. The Phase 1 Western Canadian Protocol resource list is posted on the Internet,

and the Alberta list is scheduled to be announced this spring.

Phase 2 of the Western Canadian Protocol review process continued in March 1998 with the review of student materials. Phase 3, in November 1998, will conclude with the identification of teacher guides.

An annotated K–9 resource list is scheduled to be available in the fall of 1998. This will allow schools time during the 1998–1999 school year to preview the new resources and select materials to meet the needs of their students and community prior to provincial implementation of the new program of studies scheduled for September 1999.

For more information, contact Barbara Esdale at 403–427–2984, fax 403–422–3745, email <besdale@edc.gov.ab.ca>.

Senior High School

Western Canadian Protocol (WCP)

The Western Canadian Protocol Common Curriculum Framework for English Language Arts, Grades 10–12 is organized around five general outcomes, with the six language arts—reading, writing, speaking, listening, viewing, representing—integrated throughout. Approval by the ministers of education from British Columbia, Alberta, Saskatchewan, Manitoba, Yukon Territory and the Northwest Territories is anticipated this spring.

In the framework, one set of specific outcomes was developed for Grade 10, because most provinces and territories offer a common Grade 10 program for all students. However, for Grade 11 and Grade 12, the framework includes two variations of specific outcomes.

The Western Canadian Protocol framework does not imply course design or structure, nor does it indicate the importance of each outcome in relation to desirable graduation or school-leaving skills and knowledge.

Once the framework is approved, each province and territory will decide how the general and specific outcomes are to be configured into courses that meet the needs of its students and communities. For example, Alberta may decide to develop two or three course sequences for Grade 10 to Grade 12.

Next Steps in Alberta

In Alberta, there is an opportunity to create a new senior high school English language arts program, based on the WCP common framework, to replace the 1981 program of studies that is currently being used. **The next steps for Alberta will include: defining the program of studies, deciding on courses and course sequences, developing support materials for teachers and identifying new resources for students and teachers.**

Provincial implementation of the new senior high school Alberta program of studies is scheduled for September 2000 for Grade 10, September 2001 for Grade 11 and September 2002 for Grade 12.

Forums

English language arts forums, held across Alberta, provided opportunities for discussion about how the outcomes from the framework could be developed into senior high English language arts courses that meet the needs of all Alberta students. Teachers, counsellors, administrators, representatives from post-secondary institutions and parents were invited to discuss possible course content, structure and sequences.

Forums were held during February and March in Calgary, Edmonton, Fort McMurray, Grande Prairie, Lethbridge, Medicine Hat and Red Deer.

Symposium—April 30, 1998

The first English Language Arts Symposium will be held in Calgary on Thursday, April 30, 1998 prior to the annual ATA English Language Arts Council (ELAC) Conference in Banff on May 1–3, 1998. The symposium has been designed for those individuals with curriculum leadership responsibility at the school system level. The focus will be on the changes in English language arts programs at all grade levels. The purpose is to connect with leaders in English language arts, school administrators and post-secondary personnel.

Further information is scheduled to be sent to administrators this spring.

For more information, contact Barbara Esdale or Carol Young at 403-427-2984, fax 403-422-3745; email <besdale@edc.gov.ab.ca> or <cyoung@edc.gov.ab.ca>.

FINE ARTS

Art

Basic Resources

Grades 7–9; Art 10, 20, 30; Art 11, 21, 31

- *Sightlines: A Visual Encyclopedia for the Arts, Sciences and Humanities* [CDROM]

Drama

Teaching Resources

Grades 7–9

- *The Stage and the School*. Seventh edition
 - teacher's resource binder
 - text

Music

Basic Resources

General Music 10–20–30

- *The World of Music*. Third edition

FRENCH AS A SECOND LANGUAGE

Teaching Resources

French 30, Intermediate Level 6

- *Tous ensemble!*
 - *Au-delà—La francophonie dans le monde*
 - cassette audio
 - manual pédagogique

Distance Learning

French 20, Intermediate Levels 4, 5

Teaching Resources

- *Feuilles à reproduire des modules*
- *Guide du facilitateur*

For more information, contact Lisa Caouette at 403-427-2940, fax 403-422-1947, email <lcaouette@edc.gov.ab.ca>.

HEALTH

Kindergarten to Grade 9

Program Revision Update

The process for revision of the Kindergarten to Grade 9 health program is continuing. During the fall, input was gathered from representatives of governmental and nongovernmental agencies, as well as from a representative sample of students from Grade 4 to Grade 9, to identify key issues and topics for the health program.

Meetings to discuss this input, react to a curriculum design framework and identify content areas for specific grades, were held across the province during February 1998. The input of teachers, counsellors, students, parents, school administrators and members of the community is essential to ensure that the needs of all Alberta students are addressed.

For more information about revisions to the health program, contact Barb Milne at 403-422-3282, fax 403-422-3745, email <bmilne@edc.gov.ab.ca>.

Teaching Resources

Grades 4-6

- *Sense & Nonsense: Healthy Choices About Alcohol, Drugs and Gambling* [available free of charge from Alberta Alcohol & Drug Abuse Commission office]
 - Grade 4 [for Grade 4 only]
 - Grade 5 [for Grade 5 only]
 - Grade 6 [for Grade 6 only]

KINDERGARTEN

Guide to Implementation

A guide to assist teachers in implementing the *Kindergarten Program Statement* is being developed.

Contributions from teachers across Alberta have helped to make this guide a practical and useful planning tool. It is scheduled to be available in late spring 1998.

For more information, contact Jennifer Bushrod at 403-427-2984, fax 403-422-3745, email <jbushrod@edc.gov.ab.ca>.

Kindergarten in Alberta: A Handbook for Parents

Kindergarten in Alberta: A Handbook for Parents has been developed as part of the *Curriculum Handbooks for Parents* series.

The *Kindergarten Program Statement* and *Kindergarten in Alberta: A Handbook for Parents* are available for viewing and downloading from the Alberta Education web site. Print copies are available for purchase from the LRDC.

For more information, contact Jennifer Bushrod at 403-427-2984, fax 403-422-3745, email <jbushrod@edc.gov.ab.ca>.

Teaching Resources

- *Animals: Habits and Behavior* [videocassette]
- *Inside Out*
 - Level K
 - teachers' resource book
 - Big Books
 - *Some Body!*
 - *What Makes a Body Healthy?*
 - *What Makes a Body Safe?*
 - *Who's So Special?*
- *Skills for Growing: A Positive Youth Development Program for Grades K-5: Kindergarten*
- *Zoo: Zoological Gardens* [videocassette]

MATHEMATICS

Kindergarten to Grade 9 Update

Classroom Assessment Materials Project

CAMP materials for Mathematics 7 and Mathematics 8 are in the final stages of production. Copies are scheduled to be available for purchase from the LRDC by April 1998. The updated version of the CDROM will become available at a later date.

Senior High School

Programs of Study

New programs of study for Applied Mathematics 10–20–30, Applied Mathematics 10b–20b, Pure Mathematics 10–20–30 and Pure Mathematics 10b–20b are scheduled to be sent to schools in early April 1998. New course codes will be sent at the same time.

Applied Mathematics 10–20–30

Optional implementation of these courses is to begin in September 1998 for Applied Mathematics 10, followed in September 1999 by Applied Mathematics 20 and in September 2000 by Applied Mathematics 30. Provincial implementation is September 1999 for Applied Mathematics 10, September 2000 for Applied Mathematics 20 and September 2001 for Applied Mathematics 30.

Superintendents who are interested in having their school system pilot the new Applied Mathematics programs and draft resources, beginning with Applied Mathematics 10 in September 1998, should contact Hugh Sanders or Dennis Belyk at 403–427–2984, fax 403–422–3745.

Applied Mathematics 10b–20b

Applied Mathematics 10b is a 3-credit course designed for students who have met the acceptable standard for Pure Mathematics 10 and wish to take Applied Mathematics 20. The Applied Mathematics 10b course is to be taken before proceeding to Applied Mathematics 20. Outcomes common to Pure Mathematics 10 and Applied Mathematics 10 do not have to be repeated.

Applied Mathematics 20b is a 5-credit course designed for students who have met the acceptable standard for Pure Mathematics 20 or 30 and wish to take Applied Mathematics 30. The Applied Mathematics 20b course is to be taken before proceeding to Applied Mathematics 30. Outcomes common to Pure Mathematics 10 and 20 and Applied Mathematics 10 and 20 do not have to be repeated.

Pure Mathematics 10–20–30

Provincial implementation of these courses is to begin in September 1998 for Pure Mathematics 10, followed in September 1999 by Pure Mathematics 20 and in September 2000 by Pure Mathematics 30.

Pure Mathematics 10b–20b

Pure Mathematics 10b is a 3-credit course designed for students who have met the acceptable standard for Applied Mathematics 10 and wish to take Pure Mathematics 20. The Pure Mathematics 10b course is to be taken before proceeding to Pure Mathematics 20. Outcomes common to Pure Mathematics 10 and Applied Mathematics 10 do not have to be repeated.

Pure Mathematics 20b is a 5-credit course designed for students who have met the acceptable standard for Applied Mathematics 20 or 30 and wish to take Pure Mathematics 30. The Pure Mathematics 20b course is to be taken before proceeding to Pure Mathematics 30. Outcomes common to Pure Mathematics 10 and 20 and Applied Mathematics 10 and 20 do not have to be repeated.

For more information on any of the above senior high school mathematics programs, contact Jack Edwards at 403–422–3216, fax 403–422–3745, email <jedwards@edc.gov.ab.ca>.

Mathematics 14–24

Program development is currently under way. Discussion drafts are scheduled to be available in June 1998.

For more information, contact Debbie Duvall at 403–422–3257, fax 403–422–3745, email <dduvall@edc.gov.ab.ca>.

Western Canadian Protocol Resources

Alberta Education, on behalf of the Western Canadian Protocol partners, is entering into a contract with a publisher for the development of the student basic and teacher resources for the Applied Mathematics 10–20–30 program. The contract ensures the delivery of one third of the manuscript for Applied Mathematics 10 by June 1, 1998 and a preprint version of the entire text by August 15, 1998. For Applied Mathematics 20 and 30 the preprint materials are to be available by June 1, 1999. Finished

forms of these resources are scheduled to be available by June 1, 1999 for Applied Mathematics 10; June 1, 2000 for Applied Mathematics 20; and June 1, 2001 for Applied Mathematics 30.

The review of resources for all other resource categories began during the first week of March 1998. The announcement regarding the approved resources is scheduled to be made on or before April 30, 1998. The list will be posted at the Western Canadian Protocol site and will be distributed by a direct mailout to schools and school systems.

For more information, contact Hugh Sanders at 403-427-2984, fax 403-422-3745, email <hsanders@edc.gov.ab.ca>.

PHYSICAL EDUCATION

Programs of Study

Revision of the Kindergarten to Grade 12 physical education program is currently under way. Validation and inservice are to occur in 1998-1999; provincial implementation is scheduled for September 1999.

Provincial forums were held in November 1997 where teachers, parents and community members shared their views about the knowledge, skills and attitudes students should have as a result of physical education. A forum summary has been sent to all participants. Key directions include:

- an emphasis on active living concepts that help to ensure an inclusive, risk-free and noncompetitive environment for students
- opportunities for more lifelong activities, such as individual and outdoor pursuits
- a need to restructure assessment practices to encourage participation
- a need to focus on general movement patterns and skills as opposed to team sport specifics.

A one-day physical education curriculum workshop will be held in Medicine Hat on Thursday, April 30, 1998 prior to the ATA Health and Physical Education Council Conference. The purpose of the workshop is to provide an update on the draft program of studies and the guide to implementation, and to gather input and feedback from participants.

Registration for the workshop is free; all other costs are the responsibility of the participant.

For more information about the workshop, or to obtain a copy of the forum summary, contact Val Olekshy-Greenslade at 403-422-3274, fax 403-422-3745, email <volekshy@edc.gov.ab.ca>.

Change to Graduation Requirements

The Minister of Education has approved a change to the graduation requirements for the Alberta High School Diploma. Students entering Grade 10 in the 1998-1999 and subsequent school years may use Physical Education 20 and Physical Education 30 to meet the 10-credits "breadth" diploma requirement.

SCIENCE

Secondary Science Programs Update

In September 1997, the Alberta junior high science program entered its eighth year of implementation, and a review of secondary science programs was initiated. This review has involved parents, students, teachers, business, nongovernmental organizations, post-secondary institutions and others who have expressed their views through questionnaires and program review meetings. The review posed three main questions:

- What are the strengths of Alberta's current science programs?
- What changes should be made to the content and/or structure of these programs to better meet the present and future needs of students?
- When should the programs be revised; should work be initiated now?

In general, respondents indicated that current programs have been effective in meeting student needs, but they identified a variety of reasons for initiating revisions to programs. Major reasons include the following.

- Specific content of the programs and resources, especially the examples used, needs to be updated.
- Some material in the current junior high program will become redundant. The recently revised elementary program introduces some material at earlier grade

levels than before; and as these elementary students enter their junior high years, some of the topic treatments will not be sufficiently advanced, especially in the technology area.

- Recently completed work on the Pan-Canadian Protocol for Collaboration on School Curriculum *Common Framework of Science Learning Outcomes, K–12* provides an opportunity for improved alignment of the Alberta programs with those in other provinces and territories.
- Although Alberta programs are meeting student needs, some high school students are not as well served by the programs as are others. Many reviewers have urged a fresh look at the scope and focus of the course streams that are offered.

Most respondents suggested that revisions should begin as soon as possible.

Revision Plans

Initial work on the revision of science programs is scheduled to begin in 1998. To ensure continuity in programs, the revision process is to involve all secondary science programs and implementation will be phased in as was done in the previous revision cycle. Target dates for provincial implementation of revised programs and resources are as follows:

Science 7 and 8	September 2001
Science 9 and 10	September 2002
20-level sciences	September 2003
30-level sciences	September 2004

No revisions are planned at this time for biology, chemistry and physics programs.

Revisions to secondary science programs will focus on the following:

- updating the science content to ensure its currency and relevance
- updating the treatments of technologies, with an emphasis on careers in science, employability skills, and knowledge and skills for using information technologies
- adjusting the programs to mesh with the recently revised elementary program; some topics introduced at the elementary level will enable a more advanced level of treatment at junior high
- adjusting the programs to better align with the Pan-Canadian science framework.

For senior high school programs, changes may also be made in the array of general and integrated science courses. These program sequences will be reviewed and may be adjusted to better meet the needs of all students. Decisions regarding program sequences will be made following an extensive consultation process that is scheduled to begin later this year.

Consultative drafts of proposed revisions will be circulated for review at two stages in the development process; a later draft will be validated through classroom field tests. For Grade 7 and Grade 8, the first consultative draft is scheduled to be available for review in April or May 1998.

For more information, contact Bernie Galbraith at 403-422-3218, fax 403-422-3745, email <bgalbraith@edc.gov.ab.ca>, or Raja Panwar at 403-422-3217, fax 403-422-3745, email <rpanwar@edc.gov.ab.ca>.

Basic Resources

Chemistry 30

- *Chemistry Connections* [all of the following videocassettes are available from ACCESS: The Education Station and Regional Resource and Urban Media Centres]
 - *Program 1: Introduction to Thermochemical Changes*
 - *Program 2: Specific Heat Capacity and Calorimetry*
 - *Program 3: Practical Applications of Calorimetry*
 - *Program 4: Kinetic and Potential Energy Changes During Changes to States of Matter*
 - *Program 5: Molar Enthalpy of Solution*
 - *Program 6: The Enthalpy of Phase Changes*
 - *Program 7: Molar Enthalpies and Formation Reactions*
 - *Program 8: Hess's Law: Enthalpy Communication*
 - *Program 9: The Molar Enthalpy of a Neutralization Reaction*
 - *Program 10: Applying a Problem Solving Model to Energetics*
 - *Program 11: Energy from the Sun*
 - *Program 12: Building a Water Heater and Conserving Energy*
 - *Program 13: Nuclear Changes*

- Program 14: Risk/Benefit Analyses of Energy Sources
- Program 15: An Introduction to Oxidation/Reduction
- Program 16: Predicting Oxidation Reduction Reactions
- Program 17: Extending the Reduction Half-Reaction Table
- Program 18: Writing and Balancing Oxidation-Reduction Equations
- Program 19: Corrosion Reactions
- Program 20: Quantitative Analysis Using Redox Titration
- Program 21: Oxidation-Reduction Titrations and Stoichiometry
- Program 22: Assigning Oxidation Numbers and Balancing Half-Reactions
- Program 23: Balancing Oxidation-Reduction Reactions by Using Oxidation Numbers
- Program 24: Introduction to Voltaic Cells
- Program 25: Voltage and Voltaic Cells
- Program 26: Primary Voltaic Cells
- Program 27: Electrolysis
- Program 28: Primary Cells, Secondary Cells and Fuel Cells
- Program 29: Electrolysis of Molten Compounds
- Program 30: Quantitative Electrolysis
- Program 31: Electrochemical Changes: Energy and Cost
- Program 32: Introduction to Chemical Equilibrium Systems
- Program 33: Dynamic Equilibrium
- Program 34: Opposing Reactions in Equilibrium Systems
- Program 35: Opposing Reactions and Le Châtelier's Principle
- Program 36: Equilibrium Systems in Methanol Production
- Program 37: Acids and Bases Defined
- Program 38: Acids, Bases and the Ion Product Constant of Water
- Program 39: Explaining the pH/pOH Scale
- Program 40: Acid Rain & K_w
- Program 41: Explaining the Strengths of Acids and Bases
- Program 42: Acid-Base Calculations
- Program 43: Brønsted-Lowry Acid-Base Systems
- Program 44: Predicting Equilibrium for Brønsted-Lowry
- Program 45: Acid-Base Stoichiometry and Titration Curves
- Program 46: Acid-Base Indicators
- Program 47: Acid-Base Titrations
- Program 48: Acid-Base Titration and Concentration Calculations
- Program 49: Acid-Base Technology and Society
- Program 50: Buffers and Buffer Systems
- Unit 1: Thermochemical Changes [accompanies programs 1–14]
- Unit 2: Electrochemical Changes [accompanies programs 15–31]
- Unit 3: Equilibrium Acids and Bases in Chemical Changes [accompanies programs 32–50]

Physics 30

- **Physics: A World in Motion** [all of the following videocassettes are available from ACCESS: The Education Station and Regional Resource and Urban Media Centres]
 - Program 1: Work and Energy
 - Program 2: Energy Conservation
 - Program 3: Energy Transformation
 - Program 4: Conservation of Momentum: Momentum and Impulse
 - Program 5: Collinear Momentum
 - Program 6: Momentum: Vector Addition
 - Program 7: Two-Dimensional Collisions
 - Program 8: Elastic and Inelastic Collisions
 - Program 9: Conservation of Momentum and Energy
 - Program 10: Risk Benefit Analysis
 - Program 11: Electrostatics
 - Program 12: Transferring Charge
 - Program 13: Coulomb's Law
 - Program 14: Coulomb Forces in Nature
 - Program 15: Fields Around Point Charges
 - Program 16: Electrical Potential
 - Program 17: Electric Fields Between Plates
 - Program 18: Current Electricity
 - Program 19: Ohm's Law and Energy
 - Program 20: Series and Parallel Circuits
 - Program 21: Networks
 - Program 22: Kirchhoff's Rules
 - Program 23: Magnetism
 - Program 24: Electromagnetic Forces
 - Program 25: Motor Effect

- Program 26: *Charged Particles in Magnetic Fields*
- Program 27: *Generator Effect*
- Program 28: *Generators*
- Program 29: *Lenz's Law*
- Program 30: *Transformers*
- Program 31: *EMR Fundamentals*
- Program 32: *Electromagnetic Waves and Communication*
- Program 33: *EMR and the Stars*
- Program 34: *Biomedical Applications of EMR*
- Program 35: *From Cathode Rays to X-Rays*
- Program 36: *Charge to Mass Ratio*
- Program 37: *Charge on the Electron*
- Program 38: *The Photon Model of Light*
- Program 39: *The Photoelectric Effect*
- Program 40: *Wave Particle Duality*
- Program 41: *Atomic Spectra*
- Program 42: *The Hydrogen Spectrum*
- Program 43: *The Bohr Model of the Atom*
- Program 44: *The Quantum Mechanical Model*
- Program 45: *Radioactivity*
- Program 46: *Radioactive Decay*
- Program 47: *Fission and Fusion*
- Cluster 1: *Conservation of Energy* [accompanies programs 1–3]
- Cluster 2: *Conservation of Momentum* [accompanies programs 4–10]
- Cluster 3: *Electrostatics and Electric Forces* [accompanies programs 11–14]
- Cluster 4: *Electric Field* [accompanies programs 15–17]
- Cluster 5: *Electric Circuits* [accompanies programs 18–22]
- Cluster 6: *Magnetic Fields* [accompanies programs 23–26]
- Cluster 7: *Electromagnetic Induction* [accompanies programs 27–30]
- Cluster 8: *Electromagnetic Waves* [accompanies programs 31–34]
- Cluster 9: *Electric Nature of the Atom* [accompanies programs 35–37]
- Cluster 10: *Quantum Nature of Light* [accompanies programs 38–40]
- Cluster 11: *Atomic Spectra* [accompanies programs 41–44]
- Cluster 12: *Nuclear Physics* [accompanies programs 45–47]

Teaching Resources

Grade 5

- *Wetlands Ecosystems: Teacher Manual: Grade 5* [available free of charge from Ducks Unlimited Canada]

Grade 6, Topic C

- *Discovery Works*
 - Unit B: *The Solar System and Beyond: Teaching Guide*

Grade 8

- *Interactions & Environments: Teacher Manual: Grade 8* [available free of charge from Ducks Unlimited Canada]

Grade 9

- *CEPUP (Chemical Education for Public Understanding)*
 - *Determining Threshold Limits*
 - teacher's manual
 - *Investigating Chemical Processes: Your Island Factory*
 - teacher's manual
 - *Toxic Waste: A Teaching Simulation*
 - teacher's manual
- *Diversity of Living Things: Teacher Manual: Grade 9* [available free of charge from Ducks Unlimited Canada]
- *SEPUP (Science Education for Public Understanding Program)*
 - *Chemical Survey & Solutions and Pollution*
 - teacher's manual
 - *Investigating Groundwater: The Fruitvale Story*
 - teacher's manual

SOCIAL STUDIES

Western Canadian Protocol, Kindergarten to Grade 12

Alberta Education hosted the most recent meeting of the Western Canadian Protocol Social Studies Project on January 12–16, 1998. Representatives of Alberta Education met with colleagues from British Columbia, Saskatchewan, Manitoba, Yukon Territory and the Northwest Territories to continue preliminary work on the protocol. It is anticipated that once

draft materials are available, Alberta Education will be actively seeking input and review through a consultation process. The completion of a Western Canadian Protocol Social Studies Common Curriculum Framework will take approximately three years.

For more information, contact Joan Engel at 403-427-2984, fax 403-422-3745, email <jengel@edc.gov.ab.ca>.

Basic Resources

Grade 7, Topic C

- *The Cree People*

Teaching Resources

Grade 7, Topic B

- *Japan*
 - teacher's resource package

Social Studies 30, Topic B

- *Global Forces of the Twentieth Century*. Second edition
 - teacher's resource

MATERNELLE-12^e ANNÉE RENSEIGNEMENTS GÉNÉRAUX

ÉDUCATION À DISTANCE

Depuis septembre dernier, M. Allain St-Cyrest responsable du dossier de l'éducation à distance. Il est en prêt de service du Conseil scolaire de l'École nouvelle de Saint-Paul.

Afin de mieux comprendre le vécu et les besoins des écoles en formation à distance, M. St-Cyr a rencontré cet automne plusieurs directions d'école ainsi que quelques conseils de parents, notamment à Falher, Donnelly, Fort McMurray, Plamondon, Lethbridge, Calgary et Red Deer.

Les directions scolaires ainsi que les directions générales des écoles francophones se sont réunis les 26 et 27 février 1998 pour étudier ensemble plusieurs modèles efficaces de formation à distance. Lors de cette rencontre,

on souhaite avoir pu identifier un ou deux nouveaux projets concrets qu'on pourra entamer dès septembre 1998.

Le ministère est conscient que les écoles veulent offrir une gamme plus importante de cours en français aux élèves inscrits dans nos écoles francophones et d'immersion. Les écoles veulent retenir leur clientèle en leur offrant un programme d'études viable et pertinent. C'est pourquoi les conseils scolaires, le personnel enseignant et les parents se tournent vers l'enseignement à distance comme un outil pouvant répondre aux besoins de ces élèves.

Pour tout renseignement complémentaire, veuillez contacter Allain St-Cyr au 403-422-1987, téléc 403-422-1947, adel <ast-cyr@edc.gov.ab.ca>.

ÉDUCATION FRANCOPHONE

La Direction de l'éducation française (DÉF) produira, pour la rentrée scolaire 1998, un document de réflexion sur les fondements juridiques établis et les fondements culturels et éducatifs visés en éducation française langue première en Alberta : *Affirmer l'éducation en français langue première en Alberta*.

Dans le cadre d'un processus de consultation déjà entamé pour développer ce document, la DÉF entreprend en mars et avril 1998 une tournée sur le terrain pour élargir la réflexion et obtenir la contribution des différents intervenants en éducation francophone, ainsi que l'apport du monde associatif, culturel et économique de la communauté francophone en Alberta.

Le document de référence pourra servir aux communautés éducatives francophones à situer leurs espoirs et leurs orientations en éducation, dans des fondements déjà établis ou des pistes en voie de développement.

Pour obtenir les coordonnées et les modalités de la consultation dans votre école et dans votre communauté, vous pouvez vous adresser dès maintenant à la DÉF, à Yvon Mahé au 403-427-2940, téléc 403-422-1947, adel <yamahé@edc.gov.ab.ca>.

Votre école et votre conseil scolaire ou conseil de coordination pourront aussi vous les fournir.

LIVRETS POUR LES PARENTS

La Direction de l'éducation française travaille à la préparation des livrets d'information à l'intention des parents de la première à la neuvième année. Ce projet constitue la version française des *Curriculum Handbooks for Parents*.

Une édition provisoire des livrets pour l'année scolaire 1997–1998 a déjà été expédiée par voie électronique à certaines écoles intéressées. L'édition 1998–1999 sera envoyée de la même façon à toutes les écoles francophones et d'immersion au cours du mois de juin, 1998.

Pour tout renseignement complémentaire, veuillez contacter Marcel Lavallée au 403–422–1888, téléc 403–422–1947, adel <mlavallee@edc.gov.ab.ca>.

MATÉRIEL D'ÉVALUATION POUR LA SALLE DE CLASSE (MÉSC)

Voici le calendrier révisé pour la parution de la version française des ressources connues en anglais sous le sigle CAMP.

Mars 1998	Études sociales 7 Sciences 7–8
Avril 1998	Études sociales 8 Études sociales 10–13 Sciences 1–2
Mai 1998	Études sociales 20–23 Mathématiques 31 Sciences 3
Juin 1998	Sciences 4–5 Sciences 10
Juillet 1998	Physiques 20
Août 1998	Chimie 20
Septembre 1998	Biologie 20
Novembre 1998	Mathématiques 7–8

Le matériel pour les études sociales et les mathématiques à l'élémentaire est déjà en vente au LRDC ou chez Education Advantage. Les sessions d'orientation pour l'utilisation de ce matériel auront lieu cet automne. Des renseignements plus précis à ce sujet vous seront communiqués ce printemps.

TECHNOLOGIES DE L'INFORMATION ET DES COMMUNICATIONS

Le document intitulé *Learner Outcomes in Information and Communication Technology, ECS–Grade 12: A Framework* est en voie de traduction et une version provisoire sera distribuée aux écoles avant la fin de mars : *Les résultats d'apprentissage en technologies de l'information et des communications de la maternelle à la 12^e année*.

Le numéro de mai de *Connection* fournira des renseignements additionnels au sujet de l'implantation de ce cadre et de la parution de documents complémentaires.

Pour tout renseignement complémentaire, veuillez contacter Alain Nogue au 403–427–2940, téléc 403–422–1947, adel <anogue@edc.gov.ab.ca>.

MATERNELLE–12^e ANNÉE PROGRAMMES ET RESSOURCES

ADAPTATION SCOLAIRE

La mise à jour de *Guide pour les élèves ayant des besoins spéciaux* sera disponible au site Internet de la DEF en avril. Certaines modifications ont été apportées à la section des définitions afin d'aider les conseils scolaires, les administrateurs et le personnel scolaire à identifier les codes appropriés pour le Student Information System (SIS). Ainsi, ce service sera mieux en mesure de déterminer qui a droit aux subventions accordées par Alberta Education.

Le Plan d'intervention personnalisé (PIP), un guide présenté sous forme de questions/réponses à l'intention des enseignants, sera disponible ce printemps. On y retrouvera :

- des renseignements sur les étapes du processus d'élaboration d'un PIP (cueillette d'informations, mise en oeuvre et révision)
- un glossaire

- des modèles de plans d'action accompagnés d'exemples provenant du milieu francophone et de l'immersion
- des modèles de formulaires.

Un projet visant à cerner les besoins spéciaux au niveau secondaire, à déterminer les programmes à être élaborés et à identifier des ressources et des pratiques pertinentes pour les clientèles en difficulté, a été mis sur pied. De plus amples renseignements vous seront communiqués avant le mois de juin.

Pour tout renseignement complémentaire, veuillez contacter Suzanne Gareau-Kubicki au 403-422-7797, téléc 403-422-1947, adel <sgareau-kubicki@edc.gov.ab.ca>.

Enseignant

Maternelle à 12^e année

- *Les élèves en difficulté d'adaptation et d'apprentissage. Deuxième édition*

COURS COMPLÉMENTAIRES

Quatre bibliographies annotées paraîtront ce printemps :

- Hygiène 4-5-6
- Hygiène et habiletés personnelles 7-8-9
- Carrière et vie 20
- Orientation

Pour tout renseignement complémentaire, veuillez contacter Émile Mandin au 403-427-2940, téléc 403-422-1947, adel <emandin@edc.gov.ab.ca>.

ÉDUCATION PHYSIQUE

Enseignant

1^{re} à 6^e année

- *Les clés de la danse créative* [trousse]

La vidéocassette devrait servir à titre de renseignement pour l'enseignant ou l'enseignante seulement. S'assurer que le choix d'activités soit approprié aux particularités des élèves de sa classe (ex. niveau de difficulté des mouvements, proximité entre les élèves).

ENGLISH LANGUAGE ARTS POUR LES ÉLÈVES FRANCOPHONES

En juin 1998, la Direction de l'éducation française (LSB) publiera trois documents portant sur le programme English Language Arts afin d'aider les enseignants à mieux répondre aux besoins des élèves francophones de la 3^e à la 9^e année dans ce domaine :

- Teaching English to Francophone Students in Alberta: Pedagogical Issues
- Bridging the English Language Arts and the Français Common Curriculum Frameworks
- Transfers from French to English

Pour tous renseignements complémentaires, veuillez communiquer avec Alain Nogue au 403-427-2940, téléc 403-422-1947, adel <anogue@edc.gov.ab.ca>.

ÉTUDES PROFESSIONNELLES ET TECHNOLOGIQUES

Guides d'implantation et des normes

Tous les 22 domaines sont maintenant accessibles sur notre site Internet. La section H a été ajoutée. Celle-ci facilite l'établissement des liens entre les modules et les autres cours au niveau secondaire. Vous pourrez acheter une copie de chaque domaine au LRDC dès juillet 1998. Visitez notre site au <<http://ednet.edc.gov.ab.ca/french>>.

Guides d'apprentissage pour élèves

Nous sommes à préparer des guides d'apprentissage dans les domaines suivants : Adaptation au travail (1), Alimentation (8), Design (4), Entreprise et innovation (8), Faune (1), Foresterie (2), Technologie des communications (3) et Traitement de l'information (13). Ces guides présentent, à titre de suggestion, une suite d'activités et de projets permettant l'atteinte réussie des objectifs d'un module. Tous ces guides seront prêts pour la rentrée scolaire de septembre 1998.

Modules d'éducation à distance

En Gestion des finances, les trois modules suivants seront en vente au LRDC dès mars 1998 : FIN1010 *Information financière*, FIN1020 *Entreprise de services 1* et FIN1030 *Entreprise de services 2*. Les deux autres modules seront en vente au LRDC au mois de septembre. Ce sont : FIN2020 *Entreprise commerciale 1* et FIN2030 *Entreprise commerciale 2*.

En Tourisme, les quatre modules suivants sont maintenant mis à l'essai dans quelques écoles. Ils seront en vente au LRDC à l'automne 1998 : TOU1010 *L'industrie du tourisme*, TOU1040 *Le secteur de l'alimentation*, TOU1050 *Le secteur de l'hébergement*, TOU2050 *Les réunions et congrès*.

Bibliographie annotée

On prévoit placer cet automne per le site Internet une bibliographie annotée de ressources de base, d'appui et complémentaires. Plus de 100 ressources y seront présentées. Elles sont rattachées aux domaines les plus populaires. Visitez notre site au <<http://ednet.edc.gov.ab.ca/french>>.

Pour tout renseignement complémentaire, veuillez contacter Paul Pelchat au 403-422-7798, téléc 403-422-1947, adel <ppelchat@edc.gov.ab.ca>.

ÉTUDES SOCIALES

Protocole de l'Ouest

Le projet d'élaboration d'un cadre commun en études sociales pour les quatre provinces de l'Ouest et les deux territoires du Nord est lancé. Une équipe interministérielle, composée de représentants autochtones, anglophones et francophones travaille présentement à élaborer un plan dont le but sera d'assurer la bonne marche d'un projet conjoint. Le Manitoba a la responsabilité de diriger le volet anglophone de ce cadre commun, l'Alberta, le volet immersion et la Colombie-Britannique, le volet francophone. Yvon Mahé, de la Direction de l'éducation française, est membre de l'équipe interministérielle à titre de conseiller sur les questions portant sur les besoins éducatifs de la clientèle francophone.

Pour tout renseignement complémentaire, veuillez contacter Denise Stocco au 403-422-1899, téléc 403-422-1947, adel <dstocco@edc.gov.ab.ca>.

Secondaire 2^e cycle

Un exemplaire des documents de référence suivants a été distribué à toutes les écoles qui offrent le programme d'études sociales en français. On peut se procurer d'autres exemplaires au Learning Resources Distributing Centre :

En bons termes...avec les études sociales – Glossaire pour les 10^e, 11^e et 12^e années, 1997.

Échantillons d'essais argumentatifs tirés des Examens en vue du diplôme d'Études sociales 30, Juin 1997.

Pour tout renseignement complémentaire, veuillez contacter Denise Stocco au 403-427-2940, téléc 403-422-1947, adel <dstocco@edc.gov.ab.ca>.

FRANÇAIS ET FRENCH LANGUAGE ARTS

Nicole Lamarre a été nommée administratrice des programmes de Français et de French language arts. Elle remplace Alain Nogue qui est maintenant directeur adjoint.

L'implantation des nouveaux programmes de Français et de French language arts a été reportée d'un an. Compte tenu de la disponibilité des ressources didactiques, l'implantation obligatoire à l'élémentaire se fera donc en septembre 1999. Des sessions de formation portant sur les nouveaux programmes seront offertes à compter d'octobre 1998. Le calendrier de ces sessions de formation sera communiqué aux directions générales et aux directions d'école sous peu.

Les versions finales des programmes de Français et de French language arts paraîtront en mars 1998 et non en janvier, tel qu'annoncé dans le numéro de novembre de *Connection*.

On vient de mettre sur pied un projet d'élaboration de deux bibliographies de ressources littéraires à l'élémentaire, l'une pour

les classes francophones et l'autre pour les classes d'immersion. Ces bibliographies devraient paraître au printemps 1999.

Pour tout renseignement complémentaire, veuillez contacter Nicole Lamarre au 403-427-2940, téléc 403-422-1947, adel <nlamarre@edc.gov.ab.ca>.

Secondaire

Nicole Lamarre a été nommée administratrice des programmes de Français et de French language arts. Elle remplace Alain Nogue qui est maintenant directeur adjoint.

L'implantation obligatoire des nouveaux programmes de Français et de French language arts a été reportée d'un an. Selon la disponibilité des ressources didactiques, l'implantation obligatoire au secondaire se fera donc en septembre 2000. Des sessions de formation portant sur les nouveaux programmes seront offertes à compter de février 1999. Le calendrier de ces sessions de formation sera communiqué aux directions générales et aux directions d'école sous peu.

Les versions finales des programmes de Français et de French language arts paraîtront en avril 1998 et non en janvier, tel qu'annoncé dans le numéro de novembre de *Connection*.

Les versions finales des quatre bibliographies de ressources littéraires (francophone 7-9 et 10-12 et immersion 7-9 et 10-12) ont été distribuées aux écoles.

Pour tout renseignement complémentaire, veuillez contacter Nicole Lamarre au 403-427-2940, téléc 403-422-1947, adel <nlamarre@edc.gov.ab.ca>.

MATERNELLE

Les ébauches des énoncés de programme pour les maternelles, français langue première et immersion, seront envoyées aux écoles au printemps 1998. Le travail avec les deux comités consultatifs de maternelle se poursuit afin de bien cerner les besoins respectifs des clientèles et d'élaborer une programmation appropriée. L'élaboration des outils d'appui débutera dès qu'on aura reçu l'autorisation du Ministre.

Enseignant

Danse

- *Les clés de la danse créative* [trousse]

La vidéocassette devrait servir à titre de renseignement pour l'enseignant ou l'enseignante seulement. S'assurer que le choix d'activités soit approprié aux particularités des élèves de sa classe (ex. niveau de difficulté des mouvements, proximité entre les élèves, etc.).

Français et French Language Arts

- *Chansons et jeux français pour débutants—Petits et grands* [trousse]
- *Collection ABCD-ROM*
 - *Mini-Loup le petit loup tout fou—Viens vite t'amuser avec Mini-Loup et découvrir ses aventures!* [logiciel; Windows/Macintosh CD-ROM Version]
- *Folies phoniques...et plus Vol. 1—Initiation à la lecture* [trousse]
- *Sarah & Simon se recontrent* [logiciel; Windows/Macintosh CD-ROM Version]
- *Un bon chocolat chaud*
 - *Carmen Campagne au petit écran* [vidéo; pour Maternelle et 1^{re} année]

Santé

- *Vivre sans fumée—Pour une génération de non-fumeurs* [trousse; gratuit eu s'adressant à tout bureau de la Société canadienne du cancer]

Pour tout renseignement complémentaire, veuillez contacter Suzanne Gareau-Kubicki au 403-422-7797, téléc 403-422-1947, adel <sgareau-kubicki@edc.gov.ab.ca>.

MATHÉMATIQUES

Le projet de mathématiques lancé dans le cadre du Protocole de l'Ouest canadien vise l'établissement d'un cadre commun des mathématiques, de la maternelle à la douzième année dans l'Ouest canadien. Ce cadre étant maintenant établi, il ne reste qu'à faire l'implantation du nouveau programme. Un facteur essentiel à la réussite de cette implantation est la disponibilité de ressources. Suite à l'appel de ressources, une évaluation

des soumissions fut faite par une équipe d'enseignant(e)s représentant les quatre provinces de l'Ouest canadien et les deux territoires. Vu les délais encourus dans la disponibilité des ressources recommandées par l'équipe d'évaluation, les dates d'implantation des nouveaux programmes de mathématiques pour la programmation francophone et d'immersion sont les suivantes :

- Mathématiques M à 3 : septembre 1997
- Mathématiques 4 à 6 : septembre 1998
- Mathématiques 7 et 9 : septembre 1997
- Mathématiques 8 : septembre 1998
- Mathématiques appliquées 10 : septembre 1999
- Mathématiques pures 10 : septembre 1999
- Mathématiques appliquées 20 : septembre 2000
- Mathématiques pures 20 : septembre 2000
- Mathématiques appliquées 30 : septembre 2001
- Mathématiques pures 30 : septembre 2001

Un autre facteur essentiel à la réussite de l'implantation du nouveau programme de mathématiques, comprend une mise à jour de stratégies pédagogiques nécessaire pour enseigner ce programme avec les nouvelles ressources identifiées *Ineractions*. Pour ce faire, il y a eu une tournée provinciale par une représentante des Éditions de la Chenelière commanditée par la Direction de l'éducation française de l'Alberta, où des ateliers ont été offerts pour les niveaux suivants : Maternelle, 1^{re} à la 3^e année ainsi que la 7^e à la 9^e année.

Des ateliers de sensibilisation et d'information seront aussi offerts aux enseignant(e)s de la 4^e à la 6^e année au mois de mai. Les dates de ces ateliers vous seront communiquées plus tard.

Pour tout renseignement complémentaire, veuillez contacter François Lizaure au 403-422-7992, téléc 403-422-1947, adel <flizaure@edc.gov.ab.ca>.

OTHER NEWS

ALBERTA SCHOOL HERITAGE FAIRS—1998

The Alberta School Heritage Fairs, which take place on Friday and Saturday May 22–23, 1998 offer an exciting learning environment for students to heighten their awareness of our Canadian heritage.

The fairs are part of the CRB Foundation's Heritage Project, which encourages students in Grade 4 to Grade 9 to use any medium of their choice to tell stories and share information about Canadian heroes and events. The fairs provide a venue for students to present the results of their efforts to the community at large.

Students must register their projects by April 24, 1998. Fair registration packages are available by calling the Teacher/Fair Coordinator for the Regional Alberta School Heritage Fair nearest you.

Peace River	403-624-3432
Edmonton	403-459-4456
Red Deer	403-346-4297
Calgary	403-932-4457
Lethbridge	403-381-1244

HERITAGE CANADA

Each year for Heritage Day, The Heritage Canada Foundation chooses to tell one story about our Canadian heritage from among the millions that exist. This year for Heritage Day, which was February 16, 1998, Alberta Education distributed the Heritage Canada Activity Guide and poster to Alberta elementary schools. The 1998 materials explore the land and people of the Yukon to coincide with the 100th anniversary of that land becoming a territory.

For more information about these materials, contact:

Director of Youth Services
The Heritage Canada Foundation
P.O. Box 1358, Station B
Ottawa, ON
K1P 5R4

ONTARIO WOMEN'S DIRECTORATE BIBLIOGRAPHY OF RESOURCES

The Ontario Women's Directorate has prepared a document called *How Hard Can It Be? An Annotated Bibliography of Background Materials and Curriculum Resources to Encourage Girls and Young Women into Computer Technology, Engineering and Trades, Leadership and Entrepreneurship, Mathematics and Science*. There are 178 annotated selections in the bibliography, which is designed for elementary and secondary schools. The document is available in English and French through the Ontario Women's Directorate web site at <<http://www.gov.on.ca/owd>>.

LEARNING RESOURCES DISTRIBUTING CENTRE (LRDC)

The LRDC *Buyers Guide* lists all the learning resources authorized by Alberta Education for use in Alberta schools. In response to customer needs, the LRDC also carries such resources as dictionaries, spellers, phonics, religious studies, maps and atlases.

As part of its commitment to quality customer service, the LRDC offers a suite of value-added services to assist customers in planning their selection of resources. In addition to the traditional, hard copy *Buyers Guide* ordering process, the LRDC also provides teachers, administrators and other customers with ordering capability and a wide variety of curricular and product information through three easy-to-use, electronic routes:

- LRDC internet web site at <<http://ednet.edc.gov.ab.ca/lrdc>>
- LRDC on-line, dial-in service, which includes order status inquiry, or
- drill down to the LRDC through the Alberta Education web site.

For more information, contact Customer Service and Marketing at 403-427-5775.

Connection is a publication of Alberta Education. For more information, or for additional copies, contact the Editor, Curriculum Standards Branch, 5th Floor, West Tower, Devonian Building, 11160 Jasper Avenue, Edmonton, Alberta, Canada, T5K 0L2, or:

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We welcome your comments and suggestions.

ISSN 1193-2759

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